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SP330

Cross polarized panel antenna, 12 dBd gain, low PIM, 85 degree BW, 380-430 M

- Excellent for sectorized Tetra systems
- Fully enclosed in ABS plastic radome
- Available in cross polarized and circular polarized versions
- Suitable for polarization diversity applications

Sinclair's line of panel antennas is designed for high electrical performance in a light weight durable package. Bandwidth is 20 MHz; 380-400 MHz and 410-430 MHz.

Electrical downtilts are available in 0, 10 and 15 degrees with up to a further 15 degrees possible using the mechanical downtilt bracket.

Model	Description	Pattern
SP330C-ST1P85LDF	Circular polarized antenna, 10dBd gain, low PIM, 85° Beam width, 380-400 MHz	Directional
SP330C-ST1P85LDF(D10)	Circular polarized antenna, 9.6dBd gain, low PIM, 85° Beam width, 10° DT, 380-400 MHz	Directional
SP330C-ST2P85LDF	Circular polarized antenna, 10 dBd gain, low PIM, 85° Beam width, 410-430 MHz	Directional
SP330C-ST2P85LDF(D15)	Circular polarized antenna, 9.6 dBd gain, low PIM, 85° Beam width, 15° DT, 410-430 MHz	Directional
SP330X-ST1P85LDF	Cross polarized antenna, 10 dBd gain, low PIM, 85° Beam width, 380-400 MHz	
SP330X-STBP65LDF	Cross polarized antenna, 12 dBd gain, low PIM, 65° Beam width, 380-430 MHz	Directional

ROJONE PTY. LTD.

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	SP330C-ST1P85LDF	SP330C-ST1P85LDF(D10)	SP330C-ST2P85LDF	SP330C-ST2P85LDF(D15)
Electrical Specifications				
Frequency Range, MHz	380 to 400	380 to 400	410 to 430	410 to 430
Gain (nominal), dBd (dBi)	10 (12.1)	12 (14.1)	10 (12.1)	9.6 (11.7)
Input VSWR (max)	1.5:1	1.3:1	1.3:1	1.5:1
Polarization	circular	circular	circular	circular
Pattern	Directional	Directional	Directional	Directional
Horizontal beamwidth, degrees	85	85	85	85
Vertical beamwidth, degrees	19	19	19	19
Average Power Input (max), W	300	300	300	300
Passive intermod. (2x20W, 3rd ord.), dBc	-153	-153	-153	-153
Lightning protection	DC ground	DC ground	DC ground	DC ground
Electrical tilt (available)	0	10	0	15
Isolation port to port (typ), dB	20	20	20	20
PQR, dB				
Front-to-back ratio (typ), dB	16	16	16	16
Mechanical Specifications				
Connector	7/16 DIN (female)	7/16 DIN (female)	7/16 DIN (female)	7/16 DIN (female)
Length/ Height, in (mm)	78 (1981)	78 (1981)	75.9 (1928)	78 (1981)
Width, in (mm)	14 (356)	14 (356)	14 (356)	14 (356)
Depth, in (mm)	8.7 (221)	8.7 (221)	8.7 (221)	8.7 (221)
Weight, lbs (kg)	40 (18.2)	40 (18.2)	40 (18.2)	40 (18.2)
Weight iced, lbs (kg)	130 (59)	130 (59)	130 (59)	130 (59)
Actual Shipping weight, lbs (kg)	67 (30.4)	67 (30.4)	67 (30.4)	67 (30.4)
Environmental Specifications				
Temperature range, °F (°C)	-40 to +158 (-40 to +70)	-40 to +158 (-40 to +70)	-40 to +158 (-40 to +70)	-40 to +158 (-40 to +70)
Wind Loading Area (Flat Plate Equivalent), ft² (m²)	7.3 (0.68)	7.3 (0.68)	7.3 (0.68)	7.3 (0.68)

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Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
Telephone	USA: 1 800 263 3275	International: +44 (0) 1223 42 03 03	International: +1 905 726 7676	Canada: 1 800 263 3275 International: +1 905 727 0165
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	SP330X-ST1P85LDF	SP330X-STBP65LDF
Electrical Specifications		
Frequency Range, MHz	380 to 400	380 to 430
Gain (nominal), dBd (dBi)	10 (12.1)	12 (14.1)
Input VSWR (max)	1.3:1	1.5:1
Polarization	slant 45 degrees	slant 45 degrees
Pattern		Directional
Horizontal beamwidth, degrees	85	65
Vertical beamwidth, degrees	19	19
Average Power Input (max), W	300	300
Passive intermod. (2x20W, 3rd ord.), dBc	-153	-153
Lightning protection	DC ground	DC ground
Electrical tilt (available)	0, 10, or 15	0 or 10
Isolation port to port (typ), dB	20	25
PQR, dB	14	
Front-to-back ratio (typ), dB	16	
Mechanical Specifications		
Connector	7/16 DIN (female)	7/16 DIN (female)
Length/ Height, in (mm)	75.9 (1928)	77 (1956)
Width, in (mm)	13.9 (353)	19 (483)
Depth, in (mm)	8.7 (221)	8.5 (216)
Weight, lbs (kg)	40 (18.2)	65.7 (29.8)
Weight iced, lbs (kg)		130 (59)
Actual Shipping weight, lbs (kg)		67 (30.4)
Environmental Specifications		
Temperature range, °F (°C)	-40 to +158 (-40 to +70)	-40 to +158 (-40 to +70)
Wind Loading Area (Flat Plate Equivalent), ft² (m²)	7.3 (0.68)	10.7 (0.99)

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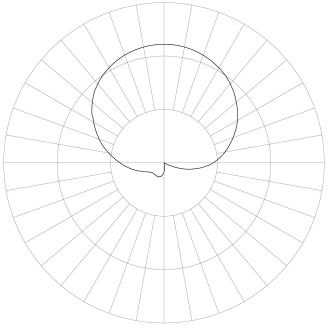

MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Azimuth
Relative Gain - 10 dB per Division

SP330C-ST2P85LDF(D15)

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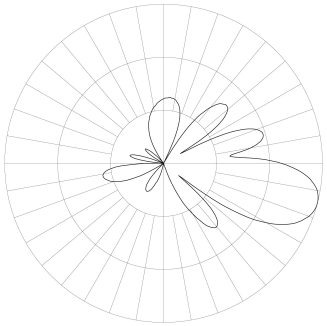

MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Elevation
Relative Gain - 10 dB per Division

SP330C-ST2P85LDF(D15)

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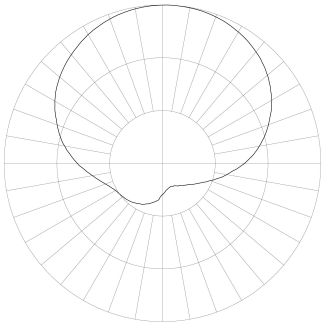

MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Azimuth
Relative Gain - 10 dB per Division

SP330X-ST1P85LDF

Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
Telephone	USA: 1 800 263 3275	International: +44 (0) 1223 42 03 03	International: +1 905 726 7676	Canada: 1 800 263 3275 International: +1 905 727 0165
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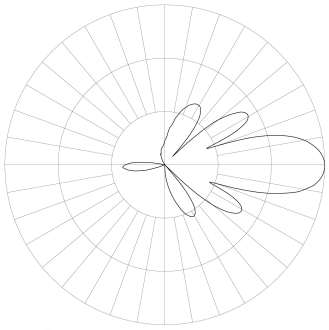

MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Elevation
Relative Gain - 10 dB per Division

SP330X-ST1P85LDF

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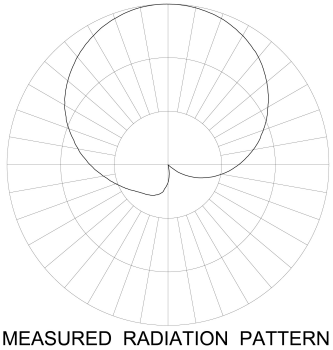

MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Azimuth
Relative Gain - 10 dB per Division

SP330X-STBP65LDF

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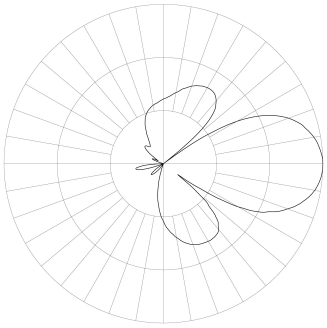

MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Elevation
Relative Gain - 10 dB per Division

SP330X-STBP65LDF

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